

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/847,867	05/02/2001	Boguslaw A. Swedek	5252/451001	5820
32588 75	590 02/12/2004		EXAMINER	
APPLIED MATERIALS, INC.			GRANT, ALVIN J	
	BLVD. M/S 2061	ART UNIT PAPER NUMBE		PAPER NUMBER
SANTA CLAR	A, CA 95050		ARTONI	TALER NUMBER
			3723	15
			DATE MAIL ED: 02/12/200	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		NA				
	Application N .	Applicant(s)				
	09/847,867	SWEDEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alvin J Grant	3723				
The MAILING DATE of this c mmunication app Period for Reply	ears n the cover sheet with the c	rrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 De	Responsive to communication(s) filed on <u>20 December 2003</u> .					
· <u> </u>	<i>'</i>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-5 and 16-22 is/are pending in the ap 4a) Of the above claim(s) is/are withdrav 5) Claim(s) 1-5 and 17-22 is/are allowed. 6) Claim(s) 16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	vn from consideration.					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7. 	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				

Application/Control Number: 09/847,867

Art Unit: 3723

DETAILED ACTION

Response to Arguments

Applicant's arguments, see page 7, lines 6-8, filed 20 December 2003, with respect to claims 1-5, 16 and 17 have been fully considered and are persuasive. The Final Rejection of claims 1-5, 16 and 17 has been withdrawn, and a detailed examination follows.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Li '672.

Li discloses a chemical mechanical polishing apparatus, comprising: a polishing surface; a carrier head to hold a substrate having a conductive layer disposed thereon in contact with the polishing surface; a motor to create relative motion between the substrate and the polishing surface; an eddy current monitoring system including an inductor and a current source to drive the inductor to generate an alternating magnetic field that induces eddy currents in the conductive layer; a sensor to measure a strength of the magnetic field and a phase difference between the magnetic field and the drive signal; and a computer configured to calculate the correction factor based on the strength of the magnetic field and calculate a thickness of the conductive layer from the phase difference and the correction factor (Fig. 4; and column 4, line 18 –column 6, line 41).

Page 3

Allowable Subject Matter

Claims 1-5 and 17 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J Grant whose telephone number is (703) 305-3315. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Joseph J Hail can be reached on (703) 308-2687. The fax phone number for the organization where this
application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ajg

Joseph J. Hail, III Supervisory Patent Examiner Technology Center 3700